These indexes include all papers published in LUBRICATION ENGINEERING in 1968. Volume (Issue Number), and Page as indicated. Back issues (Domestic—$1.50, Foreign —$2.00) may be ordered from: ASLE Publications, 838 Busse Highway, Park Ridge, Ill. 60068. The ASLE National Office is now requesting payment in advance on all small orders ($3.00 or under) and complete payment on all foreign orders.

TITLE INDEX FOR 1968

Adhesion of Metals and Non-metals in Ultrahigh Vacuum, by A. H. Hehn and J. H. Kimzey ..... 24 (6) p 274
Analytical Investigation of Skidding in a High Speed, Cylindrical Roller Bearing having Circumferentially Spaced, Preloaded, Annular Rollers, An, by T. A. Harris and S. F. Aaronson ..... 24 (1) p 30
Barrier Films Increase Service Lives of Prelubricated Miniature Ball Bearings, by V. G. Fitzsimmons, C. M. Murphy, J. B. Romans and C. R. Singleterry ..... 24 (1) p 35
British Army Crankcase Oils: Engine Tests in Specification DEF-2101-D, by P. C. Hall, R. Pearson and C. C. Washbrook ..... 24 (6) p 262
Clarification of Used Motor Oils by Capillary Action, by J. J. Heithaus ..... 24 (3) p 128
Concepts for Deep Submergence Hydrostatic Shaft Seals, by W. Shapiro ..... 24 (7) p 315
Contact Stresses in Lubricant Testers, by J. G. Carroll ..... 24 (8) p 359
Control of Whirl and Resonant Whip in a Full Journal Bearing by the Use of a Liquid-Solid Biphase Lubricant, by H. G. Rylander and G. C. Tolle .... 24 (11) p 531
Controlled Environment Friction and Wear Apparatus, by J. W. Kissel ..... 24 (10) p 472
Correlation of Disk Machines and Gear Tests, by G. H. Benedict ..... 24 (12) p 591
Design, Operation and Lubrication of EMD Traction Motor Gears and Gear Cases, by H. H. Koci and P. R. Bien ..... 24 (12) p 565
Effect of Mechanically Dispersed Solid Powders on Wear Prevention by White Oil at High Loads and Low Speeds, The, by R. C. Rosenberg and W. E. Campbell ..... 24 (2) p 92
Evaluation of Space Lubricants Under Oscillatory and Slow Speed Rotary Motion, by C. E. Vest and B. W. Ward, Jr. ..... 24 (4) p 163
Evaluation of Various Journal Materials with Regard to Machining-Type Wear, An, by H. N. Kaufman ..... 24 (5) p 204
Experimental Investigation Simulating Machining-Type Failures in Turbines, An, by S. A. Karpe .... 24 (5) p 216
Falex Procedures for Evaluating Lubricants, by F. A. Faville and W. A. Faville ..... 24 (8) p 349
Fluid Dynamic Considerations in the Design of Slinger Seals, by E. Reshotko and R. L. Rosenthal 24 (7) p 303
Fluorocarbon Resin in Piston Rings—New Performance Data for Reciprocating Non-Lubricated Air Compressors, by W. D. Lewis ..... 24 (3) p 122
Friction and Wear Testing Machines to Evaluate Tomorrow's Lubricants, by H. T. Azzam ..... 24 (8) p 366
Frictional Behavior of Solid Lubricants at Low Speeds, The, by J. R. Jones ..... 24 (2) p 64
Grease Evaluation for Wedge Brakes, by B. Adinoff 24 (9) p 416
Hydraulic Systems at a High Speed Rod Mill, by B. Hallett ..... 24 (4) p 173
Keeping Pollutants out of Troubled Waters, by E. G. Paulson ..... 24 (11) p 508
Laboratory Evaluation of Worm Gear Lubricants, by D. D. Domonoske ..... 24 (12) p 572
Low-Load Oscillating Tests of Bonded Solid Lubricants and Composites, by J. R. Jones ..... 24 (10) p 464
Lubrication and Hydraulic Practice in a Modern Steel Mill, by R. E. Rush ..... 24 (3) p 116
Lubrication in Space Vacuum (10^{-10} torr): Part I. Testing Techniques for Ball Bearings, by C. L. Harris, J. E. Read, J. B. Thompson and C. I. Wilson ..... 24 (2) p 57
Lubrication in Space Vacuum: Part II. Life Test Evaluation of Solid Film Lubricated Ball Bearings at 10^{-10} torr, by C. L. Harris, J. E. Read, J. B. Thompson and C. I. Wilson ..... 24 (3) p 131
Lubrication in Space Vacuum: Part III. Life Test Evaluation of Ball Bearings Lubricated with Oils and Greases, by C. L. Harris, J. E. Read and J. B. Thompson ..... 24 (4) p 182
Lubrication in Space Vacuum: Part IV. Friction and Wear Performance of Soft Metal Film Lubricants in Air and Vacuum to 10^{-10} torr, by C. L. Harris, J. E. Read and J. B. Thompson ..... 24 (5) p 230
Lubrication of Sliding and Rolling Element Electrical Contacts in Vacuum, by J. Przybyszewski .... 24 (10) p 454
Lubrication of Supersonic Aircraft, by L. C. Lipp .. 24 (4) p 154
Lubrication Requirements of a Modern Diesel Engine, by J. A. McLain ..... 24 (6) p 254
Mechanical Retrieval of Waste Oils and Solids from Water, by R. W. Clyne ..... 24 (11) p 514
Methods and Significance of Base Determinations in Marine Cylinder Lubricating Oils, by A. D. Abbott and L. L. Farley ..... 24 (9) p 422
Plasma Spraying, A New Method of Applying Solid Film Lubricants, by V. Hopkins, R. Hubbell and R. Kremith ..... 24 (2) p 72
Prediction of Shear Stability of Fluids Used in Hydropneumatic Recoil Systems, by R. L. Lemar 24 (9) p 409
Sealing the Cryogens with Hard Carbide Alloys, by G. P. McCleary ..... 24 (7) p 324
Shaft Seal for Gas-Cooled Reactor Rotating Machinery, A, by E. R. Taylor ..... 24 (1) p 11
Solid Film Lubrication of Instrument Spur Gears, by M. S. Hass and R. J. Schroeder ..... 24 (12) p 586
Solvents, Smog and Rule 66—New Data on Trichlorethylene (Letter to the Editor), by R. B. Elliott .. 24 (3) p 139
Solving the Oil Pollution Problem, by R. A. Evans .. 24 (11) p 521
Spherical Pivot Bearing Theory, by J. J. Kauzlarich, R. W. Wavrik and J. A. Friedericy ..... 24 (1) p 20
Survey of the Theory of Mechanical Face Seals: Part I. Characteristics of Seals, by L. H. Bernd .. 24 (10) p 479
Survey of the Theory of Mechanical Face Seals: Part II. Friction and Wear, by L. H. Bernd ..... 24 (11) p 525
Survey of the Theory of Mechanical Face Seals: Part III. Dynamic and Inter Facial Fluid Effects, by L. H. Bernd ..... 24 (12) p 597
Time Rate of Wear Testing Mechnical Seal Carbons, by L. E. Hershey ..... 24 (1) p 27
Vibrating Rig Test for Railway Bearing Greases, A, by J. E. Lieser and C. H. West ..... 24 (9) p 399
Wear-Life Improvement of a Solid Film Lubricant, by B. D. McConnell, L. E. Wiesner and K. R. Mecklenburg ..... 24 (2) p 81

AUTHOR INDEX FOR 1968

Aaronson, S. F. (see Harris-Aaronson)
Abbott, A. D. and Farley, L. L., *Methods and Significance of Base Determinations in Marine Cylinder Lubricating Oils* ..... 24 (9) p 422
Adinoff, B., *Grease Evaluation for Wedge Brakes* .. 24 (9) p 416
Azzam, H. T., *Friction and Wear Testing Machines to Evaluate Tomorrow's Lubricants* ..... 24 (8) p 366
Benedict, G. H., *Correlation of Disk Machines and Gear Tests* ..... 24 (12) p 591
Bernd, L. H., *Survey of the Theory of Mechanical Face Seals: Part I. Characteristics of Seals* ..... 24 (10) p 479
Bernd, L. H., *Survey of the Theory of Mechanical Face Seals: Part II. Friction and Wear* ..... 24 (11) p 525
Bernd, L. H., *Survey of the Theory of Mechanical Face Seals: Part III. Dynamic and Inter Facial Fluid Effects* ..... 24 (12) p 597
Bien, P. R. (see Koci-Bien)
Campbell, W. E. (see Rosenberg-Campbell)
Carroll, J. G., *Contact Stresses in Lubricant Testers* 24 (8) p 359
Clyne, R. W., *Mechanical Retrieval of Waste Oils and Solids from Water* ..... 24 (11) p 514
Domonoske, D. D., *Laboratory Evaluation of Worm Gear Lubricants* ..... 24 (12) p 572
Elliott, R. B., *Solvents, Smog and Rule 66—New Data on Trichlorethylene* (Letter to the Editor) ..... 24 (3) p 139
Evans, R. A., *Solving the Oil Pollution Problem* ... 24 (11) p 521
Farley, L. L. (see Abbott-Farley)
Faville, F. A. and Faville, W. A., *Falex Procedures for Evaluating Lubricants* ..... 24 (8) p 349
Faville, W. A. (see Faville-Faville)
Fitzsimmons, V. G., Murphy, C. M., Romans, J. B. and Singleterry, C. R., *Barrier Films Increase Service Lives of Prelubricated Miniature Ball Bearings* ..... 24 (1) p 35
Friedericy, J. A. (see Kauzlarich et al.)
Hall, P. C., Pearson, R. and Washbrook, C. C., *British Army Crankcase Oils: Engine Tests in Specification DEF-2101-D* ..... 24 (6) p 262
Hallett, B., *Hydraulic Systems at a High Speed Rod Mill* ..... 24 (4) p 173
Harris, C. L., Read, J. E., Thompson, J. B. and Wilson, C. I., *Lubrication in Space Vacuum (10^{-10} torr): Part I. Testing Techniques for Ball Bearings* 24 (2) p 57
Harris, C. L., Read, J. E., Thompson, J. B. and Wilson, C. I., *Lubrication in Space Vacuum: Part II. Life Test Evaluation of Solid Film Lubricated Ball Bearings at 10^{-10} torr* ..... 24 (3) p 131
Harris, C. L., Read, J. E. and Thompson, J. B., *Lubrication in Space Vacuum: Part III. Life Test Evaluation of Ball Bearings Lubricated with Oils and Greases* ..... 24 (4) p 182
Harris, C. L., Read, J. E. and Thompson, J. B., *Lubrication in Space Vacuum: Part IV. Friction and Wear Performance of Soft Metal Film Lubricants in Air and Vacuum to 10^{-10} torr* ..... 24 (5) p 230
Harris, T. A., and Aaronson, S. F., *An Analytical Investigation of Skidding in a High Speed, Cylindrical Roller Bearing Having Circumferentially Spaced, Preloaded, Annular Rollers* ..... 24 (1) p 30
Hass, M. S. and Schroeder, R. J., *Solid Film Lubrication of Instrument Spur Gears* ..... 24 (12) p 586
Hehn, A. H. and Kimzey, J. H., *Adhesion of Metals and Non-metals in Ultrahigh Vacuum* ..... 24 (6) p 274
Heithaus, J. J., *Clarification of Used Motor Oils by Capillary Action* ..... 24 (3) p 128
Hershey, L. E., *Time Rate of Wear Testing Mechanical Seal Carbons* ..... 24 (1) p 27
Hopkins, V., Hubbell, R. and Kremith, R., *Plasma Spraying, A New Method of Applying Solid Film Lubricants* ..... 24 (2) p 72
Hubbell, R. (see Hopkins et al.)
Jones, J. R., *The Frictional Behavior of Solid Lubricants at Low Speeds* ..... 24 (2) p 64
Jones, J. R., *Low-Load Oscillating Tests of Bonded Solid Lubricants and Composites* ..... 24 (10) p 464
Karpe, S. A., *An Experimental Investigation Simulating Machining-Type Failures in Turbines* .... 24 (5) p 216
Kaufman, H. N., *An Evaluation of Various Journal Materials with Regard to Machining-Type Wear* 24 (5) p 204
Kauzlarich, J. J., Wavrik, R. W. and Friedericy, J. A., *Spherical Pivot Bearing Theory* ..... 24 (1) p 20
Kimzey, J. H. (see Hehn-Kimzey)
Kissel, J. W., *Controlled Environment Friction and Wear Apparatus* ..... 24 (10) p 472
Koci, H. H. and Bien, P. R., *Design, Operation and Lubrication of EMD Traction Motor Gears and Gear Cases* ..... 24 (12) p 565
Kremith, R. (see Hopkins et al.)
Lemar, R. L., *Prediction of Shear Stability of Fluids Used in Hydropneumatic Recoil Systems* ..... 24 (9) p 409
Lewis, W. D., *Fluorocarbon Resin in Piston Rings—New Performance Data for Reciprocating Non-Lubricated Air Compressors* ..... 24 (3) p 122
Lieser, J. E. and West, C. H., *A Vibrating Rig Test for Railway Bearing Greases* ..... 24 (9) p 399
Lipp, L. C., *Lubrication of Supersonic Aircraft* .... 24 (4) p 154
McCleary, G. P., *Sealing the Cryogens with Hard Carbide Alloys* ..... 24 (7) p 324
McConnell, B. D., Wieser, L. E. and Mecklenburg, K. R., *Wear-Life Improvement of a Solid Film Lubricant* ..... 24 (2) p 81
McLain, J. A., *Lubrication Requirements of a Modern Diesel Engine* ..... 24 (6) p 254
Mecklenburg, K. R. (see McConnell et al.)
Murphy, C. M. (see Fitzsimmons et al.)
Paulson, E. G., *Keeping Pollutants out of Troubled Waters* ..... 24 (11) p 508
Pearson, R. (see Hall et al.)
Przybyszewski, J., *Lubrication of Sliding and Rolling Element Electrical Contacts in Vacuum* ..... 24 (10) p 454
Read, J. E. (see Harris et al., Parts I, II, III and IV)
Reshotko, E. and Rosenthal, R. L., *Fluid Dynamic Considerations in the Design of Slinger Seals* ... 24 (7) p 303
Romans, J. B. (see Fitzsimmons et al.)
Rosenberg, R. C. and Campbell, W. E., *The Effect of Mechanically Dispersed Solid Powders on Wear Prevention by White Oil at High Loads and Low Speeds* ..... 24 (2) p 92
Rosenthal, R. L. (see Reshotko-Rosenthal)
Rush, R. E., *Lubrication and Hydraulic Practice in a Modern Steel Mill* ..... 24 (3) p 116
Rylander, H. G. and Tolle, G. C., *Control of Whirl and Resonant Whip in a Full Journal Bearing by the Use of a Liquid-Solid Biphase Lubricant* 24 (11) p 531
Schroeder, R. J. (see Hass-Schroeder)
Shapiro, W., *Concepts for Deep Submergence Hydrostatic Shaft Seals* ..... 24 (7) p 315
Singleterry, C. R. (see Fitzsimmons et al.)
Taylor, E. R., *A Shaft Seal for Gas-Cooled Reactor Rotating Machinery* ..... 24 (1) p 11
Thompson, J. B. (see Harris et al., Parts I, II, III and IV)
Tolle, G. C. (see Rylander-Tolle)
Vest, C. E. and Ward, B. W., *Evaluation of Space Lubricants Under Oscillatory and Slow Speed Rotary Motion* ..... 24 (4) p 163
Ward, B. W. (see Vest-Ward)
Washbrook, C. C. (see Hall et al.)
Wavrik, R. W. (see Kauzlarich et al.)
West, C. H. (see Lieser-West)
Wieser, L. E. (see McConnell et al.)
Wilson, C. I. (see Harris et al., Parts I and II)